ATENT COOPERATION TREATS

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From the INTERNATIONAL SEARCHING AUTHORITY	LAW DEPARTMENT
To:	
HONEYWELL INTERNATIONAL INC.	ZIMMOTIFICATION OF TRANSMITTAL OF
Attn. Hoiriis, David	THE INTERNATIONAL SEARCH REPORT AND AHEAVRITTEN OPINION OF THE INTERNATIONAL
101 Columbia Road	THE WRITTEN OPINION OF THE INTERNATIONAL SERVICE AND CONTROL OF THE DECLARATION OF THE DECLARATION
P.O. Box 2245	nis
Morristown, New Jersey 07960 UNITED STATES OF AMERICA	
	(PCT Rule 44.1)
	Date of mailing
	(day/month/year) 06/12/2004
Applicant's or agent's tile reference	
H0005036-3002	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	international filing date
PCT/US2004/022864	(day/month/year) 15/07/2004
Applicant	1
HONEYWELL INTERNATIONAL INC.	
The applicant is hereby notified that the International search Authority have been established and are transmitted herewiti	report and the written opinion of the International Searching h.
Filing of amendments and statement under Article 19:	
The applicant is entitled, if he so wishes, to amend the claims When? The time limit for filling such amendments is norm International Search Report, however, for more of	
Where? Directly to the International Bureau of WIPO, 34 to 1211 Geneva 20, Switzerland, Fas	chemin des Colombettes
For more detailed instructions, see the notes on the accom-	
2. The applicant is hereby notified that no International search of	anort will be established and that the declaration under
Article 17(2)(a) to that effect and the written opinion of the Intel. With regard to the protest against payment of (an) addition	
the protest together with the decision thereon has been applicant's request to forward the texts of both the prote	st and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the application	cant will be notified as soon as a decision is made.
: Reminders	
Shortly after the expiration of 18 months from the priority date, the	International application will be published by the
International Bureau. If the applicant wishes to avoid or postpone pl application, or of the priority claim, must reach the international Bure before the completion of the technical preparations for international	eau as provided in Rules 90 <i>bis</i> 1 and 90 <i>bis</i> 3, respectively
The applicant may submit comments on an informal basis on the wr	itten opinion of the International Searching Authority to the
International Bureau. The International Bureau will send a copy of sinternational preliminary examination report has been or is to be est the public but not before the expiration of 30 months from the priority	uch comments to all designated Offices unless an ablished. These comments would also be made available to
Within 19 months from the priority date, but only in respect of some	designated Offices, a demand for international preliminary
examination must be filed if the applicant wishes to postpone the en- date (in some Offices even later); otherwise, the applicant must, with acts for entry into the national phase before those designated Office.	try into the national phase until 30 months from the priority hin 20 months from the priority date, perform the prescribed
In respect of other designated Offices, the time limit of 30 months (months,	or later) will apply even if no demand is filed within 19

Name and mailing address of the International Searching Authority

Authorized officer

See the Annex to Form PCT/IE/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittel of the international search report or 15 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 48.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required, in all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The emendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the olaim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is now:
- (iv) the claim replaces one or more claims as filed:
- (V) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 Claims 1 to 15 replaced by amended claims 1 to 11.
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]; *Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.*

"Statement under article 19(1)" (Rute 46.4)

The amendments may be ecompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appoilestion is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filled and as amended, it must be filled on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

(PATENT COOPERATION TREAT!

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference H0005036-3002	FOR FURTHER ACTION as well	see Form PCT/ISA/220 il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2004/022864	15/07/2004	15/07/2003
Applicant HONEYWELL INTERNATIONAL I	NC.	
This International Search Report has been according to Article 18. A copy is being to	en prepared by this international Searching Autransmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	s of a total of4 sheets. y a copy of each prior art document cited in this	report
Basis of the report With regard to the language, the language in which it was filed, un	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
The International this Authority (Ru		ation of the international application furnished to
b. With regard to any nucle	otide and/or amino ecid sequence disclosed i	in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (\$66 Box II).	
3. Unity of Invention is lac	king (see Box III).	
4. With regard to the title,		
the text is approved as su		
The text has been establis	hed by this Authority to read as follows:	
		•
T 1850 as a saud to the street	•	
 With regard to the abstract, the text is approved as sut 	emitted by the englisent	
the text has been establish	ned, according to Rule 38.2(b), by this Authority in the date of mailing of this international search	
6. With regards to the drawings,		
a. the figure of the drawings to be pu	iblished with the abstract is Figure No.	-
as suggested by th	•••	
	Authority, because the applicant falled to sugge	
	Authority, because this floure better characteriz Time1 * QVD-HQDTO,FFYDF.4/3 * DMQ-973Q306 * C:	

rnational Application No

rCT/US2004/022864 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO4B35/593 F01D F01D5/28 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) CO4B FO1D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where pradical, search terms used) EPO-Internal, PAJ, CHEM ABS Data, WPI Data, INSPEC, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X JP 2000 247748 A (KYOCERA CORP) 1-10 12 September 2000 (2000-09-12) Sample 51. paragraphs '0037!, '0038!, '0047!; tables 2.5 X US 5 523 267 A (TANAKA KOUICHI ET AL) 1-10 4 June 1996 (1996-06-04) Specimen 19.table 5 US 4 401 768 A (MORGAN PETER E D) 1-10 30 August 1983 (1983-08-30) cited in the application column 3, lines 29-63; table 1 χ US 4 234 343 A (ANDERSSON CLARENCE A) 1-10 18 November 1980 (1980-11-18) table 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex, Special categories of cited documents: "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular televance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date *L* document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person stilled O' document referring to an oral disclosure, use, exhibition or other means in the art. "P" document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family

Date of the actual completion of the international search

29 November 2004

Name and mailing address of the ISA

Date of mailing of the international search report

06/12/2004

Authorized officer

_No. 6438___P. 35

rational Application No rcT/US2004/022864

		FC17U3ZUU47UZZ804		
C.(Continua Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
ORIGINIA .	олеом и меннон, тип полошен, тога арроргате, от иге гавуалт развадав	i Maadii in Ceilli Mr		
X	US 5 804 523 A (KOHSAKA SHOJI ET AL) 8 September 1998 (1998-09-08) cited in the application Sample 4-21.tables 7,8	1-10		
X	US 5 219 500 A (KOGA KAZUNORI ET AL) 15 June 1993 (1993-06-15) Sample 1. column 5, lines 16-30; table 1	1-10		
X	PEZZOTTI G ET AL: "Effect of residual microstresses at crystalline multigrain junctions on the toughness of silicon nitride" JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, ELSEVIER SCIENCE PUBLISHERS, BARKING, ESSEX, GB, vol. 19, no. 4, April 1999 (1999-04), pages 451-455, XP004160624 ISSN: 0955-2219 abstract; table 1	1-10		
	CHOI H-J ET AL: "HIGH TEMPERATURE STRENGTH AND OXIDATION BEHAVIOUR OF HOT-PRESSED SILICON NITRIDE-DISILICATE CERAMICS" JOURNAL OF MATERIALS SCIENCE, CHAPMAN AND HALL LTD. LONDON, GB, vol. 32, no. 7, 1 April 1997 (1997-04-01), pages 1937-1942, XP000685986 ISSN: 0022-2461 table 1	1-10		

No. 6438 P. 36

Information on patent family members

rational Application No PCT/US2004/022864

				10170025047024004	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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US 5523267	A	04-06-1996	DE DE EP JP JP	69121689 D1 69121689 T2 0493802 A1 2842723 B2 5201768 A	02-10-1996 03-04-1997 08-07-1992 06-01-1999 10-08-1993
US 4401768	A	30-08-1983	NONE		
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US 5219500	A	15-06-1993	JP JP JP JP JP JP JP JP JP	63248772 A 63248773 A 2662863 B2 63252967 A 2584996 B2 63288965 A 63303861 A 1061357 A 2631104 B2 1145380 A 2631115 B2 4920085 A 1052678 A 2631102 B2	17-10-1988 17-10-1988 15-10-1997 20-10-1988 26-02-1997 25-11-1988 12-12-1988 08-03-1989 16-07-1997 07-06-1989 16-07-1997 24-04-1990 28-02-1989 16-07-1997